

ABSTRACT

Methods for the transformation of plants are provided. The methods of the present invention comprise the steps of a) contacting the meristematic tissue of a plant and an area of the plant below the contacted meristematic tissue to a power source, wherein the area below the meristematic tissue is contacted to a positive lead and the meristematic tissue is contacted with a DNA-containing medium which in turn is contacted with a negative lead, and b) applying low amperage current, thus causing the DNA to migrate from the DNA-containing medium into the cells of the meristematic tissue. The transformed plants may be grown to maturity. The mature plants may then self-pollinate and the seed from the plant harvested. Both the parent plant, seed from the parent plant, progeny plants and progeny seeds contain the introduced DNA.

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